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Efficient and reliable data transmission for cellular-and-GPS-based
mayday systems
- Yilin Zhao

Chicago Corporate Res. Labs., Motorola Inc., Schaumburg, IL, USA

Abstract:
As automotive mayday systems continue their momentum to reach the
worldwide market, more and more people begin to be aware the
benefit of these systems. A mayday system could significantly improve
the safety of the vehicle and its occupants as well as provide a variety
of valuable assistance to its users. Some popular systems integrate a
cellular phone with a GPS (Global Positioning System) receiver as their
in-vehicle equipment. When activated by a user or an emergency
event, the system connects its user instantly to an operator in a
24-hour service center over the wireless cellular network. Meanwhile,
the current vehicle position along with other important vehicle
information are also transmitted to the center for immediate attention
and further process. It becomes very important for mayday system
designers to make sure that these data are transmitted efficiently and
reliably. In the paper, we discuss a solution that provides such
efficiency and reliability.

Index Terms:
cellular radio Global Positioning System safety automobiles data
transmission cellular-and-GPS-based mayday systems automotive
mayday systems safety cellular phone GPS receiver emergency event
24-hour service center wireless cellular network vehicle position
vehicle information

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Bluetooth-based wireless connectivity in an automotive environment
- Nusser, R. Pelz, R.M.
Corp. Res. & Dev., Robert Bosch GmbH, Hildesheim, Germany
This paper appears in: Vehicular Technology Conference, 2000.
IEEE-VTS Fall VTC 2000. 52nd
On page(s): 1935 - 1942 vol.4
24-28 Sept. 2000
Boston, MA, USA
2000
Volume: 4
ISBN: 0-7803-6507-0
IEEE Catalog Number: 00CH37152
Number of Pages: 6 vol. 3040
References Cited: 6
INSPEC Accession Number: 6880145

Abstract:
In contrast to a home or office environment the automotive
environment represents a relatively underdeveloped application field
regarding the provision of new services (e.g. car-specific services)
and/or access to existing services (e.g. Internet services). One of the
key elements for accomplishing such a task is an appropriate, wireless
delivery media. A combination of several dedicated access technologies
(e.g. stationary/mobile operation) is not precluded. The integration of
existing and new communication technologies requires an appropriate
in-car infrastructure for the support of communication, information and
entertainment services, which takes into account the specific
characteristics and constraints of the considered automotive
environment. It can be foreseen that Bluetooth, an emerging
technology for short range wireless connectivity, will be an integral
part of future car-based networks. The paper describes concepts for
integration of the Bluetooth technology, the achievable transmission
performance and a potential user application framework.

Index Terms:
radio networks land mobile radio automobiles Internet mobile
computing Bluetooth-based wireless connectivity automotive
environment car-specific services Internet services wireless delivery
media access technologies stationary/mobile operation entertainment
services information services communication services short range
wireless connectivity car-based networks Bluetooth technology
transmission performance mobile computing

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Mobile multimedia platforms
- Stirling, A.
Arthur D. Little Inc., Cambridge, MA, USA
This paper appears in: Vehicular Technology Conference, 2000.
IEEE-VTS Fall VTC 2000. 52nd
On page(s): 2541 - 2548 vol.6
24-28 Sept. 2000
Boston, MA, USA
2000
Volume: 6
ISBN: 0-7803-6507-0
IEEE Catalog Number: 00CH37152
Number of Pages: 6 vol. 3040
References Cited: 9
INSPEC Accession Number: 6886933

Abstract:
With the explosion in mobile telecommunications and increasing competition, mobile telephone service providers and vehicle makers are looking to develop new types of services for vehicle users. So far the services have included information about traffic conditions and support in case of breakdowns. In future digital broadcast and third generation telecommunication systems will be used to deliver interactive multimedia services into the vehicle. This paper looks at platform requirements for supporting the delivery of the new multimedia services. It considers the role of operating systems and networks in determining the flexibility and costs of the system.

Index Terms:
land mobile radio multimedia communication telecommunication traffic radiotelephony wireless LAN mobile multimedia platforms mobile telecommunications mobile telephone service providers vehicle makers traffic conditions breakdowns digital broadcast systems third generation telecommunication systems interactive multimedia services system costs system flexibility wireless local area networks wireless LAN

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Arthur D. Little Inc., Cambridge, MA, USA
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